

# **Utah Climatic Summary September 2014**











# Here's a look at precipitation reports for the month of September:

Tiere s'a look at pi	corpitation	reports for		or ocptomber
Station	Precipitation	Snowfall	<b>Normal Pcpn</b>	Percent of Normal
Alpine	3.06	-	1.45	211
Alta	4.72	-	3.04	155
Altamont	2.62	-	-	-
Alton	5.00	-	1.54	325
Angle	1.55	-	1.02	152
Big Water	0.78	-	0.75	104
Boulder	2.93	-	1.37	214
Bountiful	3.95	-	-	-
Bountiful Bench	2.96	-	-	-
Brigham City	2.63	-	1.51	174
Bear Lake State Park	3.13	-	-	-
Bullfrog Basin	1.06	-	0.85	125
Capitol Reef Nat'l Park	1.63	-	0.75	217
Castle Dale	1.48	-	0.99	150
Cedar City	3.35	-	1.14	294
Centerville	3.85	-	-	-
City Creek	3.38	-	2.05	165
Clearfield	2.48	-	-	-
Coalville 13 E	3.89	-	1.49	261
Cottonwood Weir	3.19	-	1.99	160
Cutler Dam	2.83	-	1.35	210
Deer Creek Dam	3.33	-	1.67	199
Duchesne	3.04	-	1.21	251
Echo Dam	3.62	-	1.35	268
Eden 2N	2.40	-	-	-
Escalante	2.17	-	1.08	201
Farmington 3 NW	2.42	-	1.50	161
Ferron	1.83	-	1.08	169
Fremont Indian S.P.	2.31	-	0.82	282

Station	Precipitation	Snowfall	Normal Pcpn	Percent of Normal
Hans Flat	1.99	-	1.08	184
Hatch	4.54	-	1.20	378
Helper-Carbon	1.55	-	1.85	84
Kanab	3.85	-	1.51	255
Kodachrome Basin	3.92	-	1.21	324
Laketown	2.93	-	1.18	248
Levan	2.43	-	1.23	198
Loa	2.60	-	0.74	351
Logan USU	2.16	-	1.53	141
Manti	1.50	-	1.21	124
Milford	3.34	-	0.87	384
Moroni	2.56	-	-	-
Mountain Dell	3.30	-	2.12	156
Neola	2.91	-	1.36	214
Nephi	1.89	-	1.19	159
Ogden NE Bench	2.20	-	-	-
Panguitch	4.65	-	0.92	505
Paria Ranger Station	1.40	-	-	-
Pineview Dam	2.19	-	2.10	104
Richmond	2.85	-	1.47	194
Salt Lake Int'l Airport	2.51	-	1.21	207
Salt Lake Triad Center	1.97	-	1.52	130
Santaquin	2.83	-	1.46	194
Scofield-Skyline Mine	5.04	-	-	-
Silver Lake-Brighton	3.59	-	2.76	130
South Ogden	3.19	-	-	-
South Salt Lake	3.75	-	-	-
Summit	3.36	-	0.77	436
Trenton	1.87	-	1.28	146
Upper Millcreek	2.58	-	-	-
Utah Lake Lehi	1.83	-	1.16	158
Wanship Dam	4.33	-	1.56	278
Weber Basin Pump 3	3.50	-	1.77	198
Wellington 3 E	2.59	-	1.25	207
Woodruff	2.83	-	1.23	230

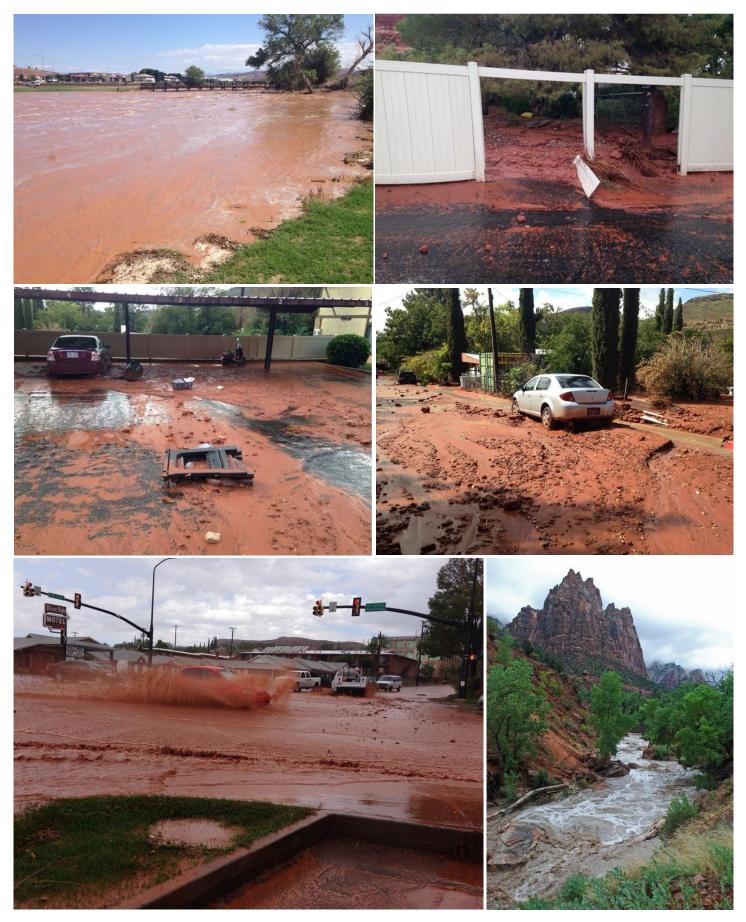
**Sep 8th-9th -** Tropical moisture from former Hurricane Norbert brought torrential rain and widespread flooding to southern Utah. Most of the Beehive State received well over an inch of rain, with 2-3 inches the norm across the south. Interstate 15 was closed near the Arizona border as waterfalls, mud, debris, and large boulders washed across or fell onto the highway in the Virgin River Gorge. Almost all of Washington County had some sort of flooding or flash flooding with street flooding in St. George, and home and basement flooding in Ivins. Zion National Park had flooding and waterfalls pretty much everywhere, with debris flows closing numerous roads.





Top: Impressive mesocyclone thunderstorm over a park in Layton. This storm produced heavy rain and small hail. Above: Numerous large waterfalls produced by torrential rain and flash flooding in Zion National Park. Right: Water, mud and debris flow along I-15 just over the Arizona border. The interstate was closed for several hours as many large boulders had to be removed.





Top (Left): Flash Flood waters in the Santa Clara River (Right): Mud and debris flow damage fence in Ivins. Middle (Left): Flood damage in St. George carport area. (Right): Mud and debris cover street in St. George. Bottom (Left): Flooded intersection in St. George. (Right): One of several flooded washes at Zion Nat'l Park.

<b>Precipitation Totals (i</b>	nches)				
Ivins	3.65	Zion Nat'l Park	2.36	White Reef	2.29
New Harmony	2.20	Lava Point	2.00	Zion Canyon	1.90
Buck Flat	1.89	Henry Mountain	1.86	Tom Best Spring	1.84
Agua Canyon	1.81	Bryce Canyon Airport	1.76	Cedar City	1.74
Springville	1.66	Assay	1.55	Panguitch	1.54
Henry Mountain	1.54	Weber River/Morgan	1.48	Fountain Green	1.44
Layton	1.40	Timpanogos Cave	1.37	Heber City 6 E	1.37
Circleville	1.36	Parowan	1.35	Kodachrome Basin	1.28
Wanship Dam	1.27	Bryce Canyon	1.25	Provo BYU	1.25
Fishlake	1.23	Orem	1.22	Bountiful	1.20
Spanish Fork	1.20	Draper	1.17	Aspen Mountain	1.15
South Weber	1.14	Parowan	1.13	South Salt Lake	1.09
Bountiful Bench	1.08	South Ogden	1.08	Enterprise	1.08
West Point	1.06	Pleasant Grove	1.06	Boulder	1.06
Norway	1.04	Bear River	1.04	Oak City	1.03
Manti	1.02	La Verkin	1.01	Sandy	0.99
Lost Creek/Croyden	0.99	Centerville	0.98	Capitol Reef N.P.	0.86
Hanna	0.84	West Salt Flats	0.84	Bullfrog Marina	0.63

**Sep 18th-19th -** Scattered showers and thunderstorms developed across most of Utah, with some storms producing brief heavy rain and gusty winds. Storms moving across the Wasatch Front produced a wild lightning display in the wee hours of the 19th.





Above (Left): Lightning strikes in the Salt Lake Valley. (Right): Cloud-to-ground lightning in Davis County.

#### **Precipitation Totals (inches)**



Park Valley	0.83	Rosebud	0.60	Hyde Park	0.56
Snowville	0.53	Logan	0.49	Riverside	0.45
West Granite	0.45	Garland 1 SE	0.44	Garden City	0.38
Bothwell	0.38	Thatcher	0.35	Tremonton	0.32
Perry	0.26	Richmond	0.22	Salt Lake City	0.22
Lewiston	0.21	Salt Lake Int'l Airport	0.19	Mendon	0.17
Randolph	0.16	Bountiful	0.15	Trans-Jordan Landfill	0.14
Park City Golf Course	0.13	Hardware Ranch	0.12	Bear River	0.12

#### Peak Wind Gusts (MPH)



Hat Island	53	Interstate 80	53	SR-30 @ Curlew	52
Eagle Range	49	I-15 @ Tremonton	47	<b>Gunnison Island</b>	47
Brigham City Airport	46	<b>Promontory Point</b>	45	Logan Airport	44
Rosebud	44	West Ogden	43	Wendover POE	43
Groome	43	I-15 @ Willard POE	42	Causeway	42
Park Valley	41	Bothwell	40	Lakeside Mountain	40

Sep 21st-22nd - Widespread showers and thunderstorms developed across most of Utah, with some storms producing locally heavy rain and gusty winds. The heaviest precipitation fell across central and southern Utah. A severe thunderstorm produced damaging hail and flooding in Cannonville. Golf ball size hail there ripped through a polycarbon greenhouse, and the same storm produced winds strong enough to bend a steel flagpole buried in cement.



Above: A rain shaft along with areas of blowing dust moving along a gust front in Salt Lake City.

#### Precipitation Totals (inches)

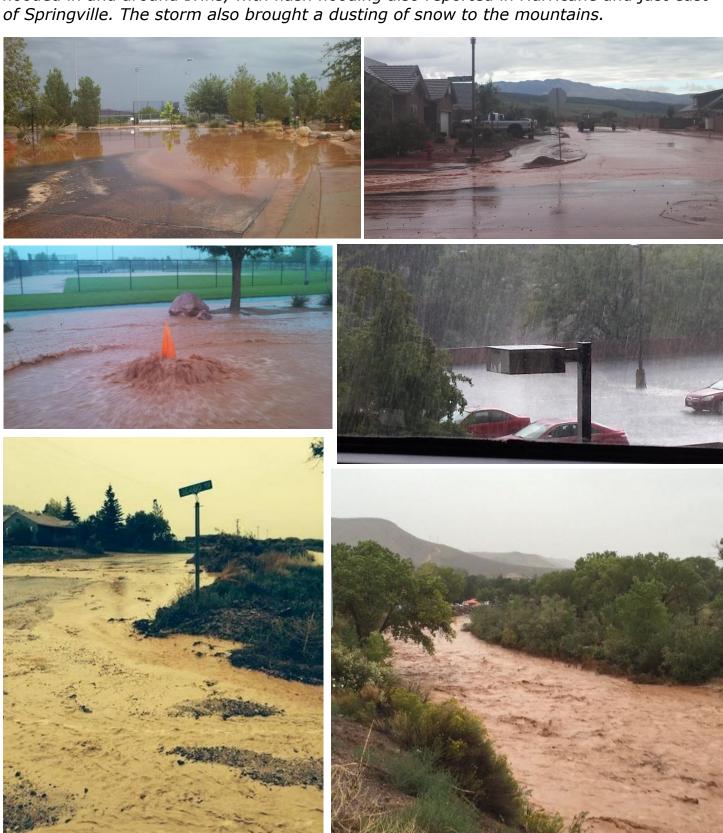


Fishlake	1.20	Greenville Bench	1.07	Circleville	0.99
Milford	0.94	Kanab	0.90	Bruin Point	0.89
WCF-1 Portable	0.89	Horse Hollow	0.89	Agua Canyon	0.86
Rosebud	0.85	Joes Valley Reservoir	0.84	Bryce Canyon	0.83
Muddy Creek	0.78	Signal Peak	0.77	Monroe	0.72
Alta-Base	0.71	Green River	0.70	Black Cedar	0.70
Sevier Reservoir	0.69	Saratoga Springs	0.64	Panguitch	0.63
Fillmore	0.62	Loa	0.62	Heber City	0.62
Telegraph Flat	0.57	Zion National Park	0.55	Fountain Green	0.51
Kodachrome Basin	0.50	Apple Valley	0.49	Cedar City 3 W	0.47
Venice	0.46	Kaysville	0.46	Beus Canyon	0.46
Price Airport	0.44	Spring City	0.43	Farmington	0.43
Heber City	0.43	Hanna	0.42	Wellington 3 E	0.42
Taylorsville	0.41	Springville	0.41	Spanish Fork	0.41
Roosevelt	0.40	Salt Lake Int'l Airport	0.39	South Ogden	0.37
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#### Peak Wind Gusts (MPH)

Badger Spring	59	Sundance-Arrowhead	53	Ogden Peak	53
North Salt Flats	51	Tule Valley	46	Simpson Springs	45
Hanksville	44	White Sage	44	Causeway	43
Delta	42	Milford Airport	41	Ditto	41
Dog Valley	40	Draper	40	Sandy	40

**Sep 26th-29th -** A surge of tropical moisture, this one from former Hurricane Odile, brought more torrential rain and flooding to southern Utah. The moisture combined with a Pacific trough to also bring heavy rain to northern and central Utah. Most of the state received 1-2 inches of rain, with nearly 3 inches in some spots. Several homes were flooded in and around Ivins, with flash flooding also reported in Hurricane and just east of Springville. The storm also brought a dusting of snow to the mountains.



Top (Left): Flooded park in the town of Ivins. (Right): Water and mud flood streets and yards in Ivins. Middle (Left): Drain system in Ivins overwhelmed by flood waters. (Right): Heavy downpour in Utah County. Bottom (Left): Street flooding in the town of Tabiona. (Right): Flash flooding in the Virgin River.





Above (Left): A graveyard in flooded in Herriman. (Right): Light snow coats the San Juan Mountains.

# Precipitation Totals (inches)



Duchesne Rvr/Tabiona	3.26	Garden City	2.98	Blacktail	2.96
Aspen Mountain	2.81	Norway	2.81	Badger Spring	2.71
Hanna	2.68	Snowville (West)	2.40	Randolph	2.35
Heber City 6 E	2.35	Laketown	2.28	Red Spur	2.27
Horse Ridge	2.25	Moon Lake	2.24	Oak City 10 ESE	2.23
Lava Point	2.22	Bear River	2.20	Enterprise	2.18
Bountiful	2.05	Sandy	2.02	Alta-Base	2.00
Milford	1.94	Weber River/Echo	1.90	Bryce Canyon	1.88
Bruin Point	1.87	Tickville	1.87	Taylorsville	1.86
Bountiful Bench	1.81	Rays Valley	1.80	West Valley City	1.78
Holladay	1.76	Snowville	1.74	Zion National Park	1.72
Draper	1.72	Weber River/Morgan	1.71	Murray	1.67
Blue Creek	1.67	Holladay	1.62	Centerville	1.61
Delta	1.60	Pleasant Grove	1.57	Park City Golf	1.54
Fountain Green	1.54	Logan Campbell	1.52	Magna	1.52
Telegraph Flat	1.52	Huntsville	1.51	Salt Lake Int'l Airport	1.51
Richmond	1.46	West Point	1.46	Olympus Cove	1.46
Spanish Fork	1.46	Panguitch	1.42	Beus Canyon	1.42
Farmington	1.42	Morgan	1.42	South Jordan	1.41
Mantua	1.39	South Ogden	1.38	Tule Valley	1.37
Lewiston	1.34	Ogden Airport	1.34	Smithfield	1.33
Providence	1.32	Brigham City	1.32	Olympus Hills	1.30
Lehi	1.26	Hill A.F.B.	1.26	Bothwell	1.26
Orem	1.25	Riverdale	1.25	North Holladay	1.25
Price	1.25	Cedar City	1.25	Fruit Heights	1.24
Rosebud	1.24	Riverside	1.24	Tooele	1.23
Layton	1.22	Riverton	1.22	Venice	1.19
Park Valley	1.18	Fillmore	1.18	Oak City	1.16
Green River	1.16	Wellsville	1.14	Corinne	1.14
Saratoga Springs	1.14	Cedar City Airport	1.11	Kaysville	1.08
Roy	1.08	Clearfield	1.08	Wendover	1.01
Syracuse	0.99	Nephi	0.96	Harrisville	0.92
Monroe	0.87	Spring City	0.78	Bullfrog Marina	0.34



# **Low Temperature Records For the Month of September:**



**Sep 9th** - Record low maximum temperatures were set at Alpine 62 (66/1980), Price 69 (69/2005) and Provo BYU 70 (70/1929).

**Sep 12th** - Duchesne set a record low maximum temperature 59 (62/1989), and a record low minimum temperature was set at Utah Test Range 34 (42/1995).



# **High Temperature Records For the Month of September:**



**Sep 17th** - Record high maximum temperatures were set at Alpine 91 (90/1981), Pine View Reservoir 88 (88/1962), Price 88 (87/1979), Randolph 80 (80/2010), Salt Lake Int'l Airport 94 (93/1937) and Wendover 93 (92/1928). Record high minimums were set at Capitol Reef NP 62 (62/1983), Randolph 43 (42/1997), Salt Lake Int'l Airport 69 (68/2013) and Wendover 70 (64/1998).

**Sep 18th** - Record high maximum temperatures were set at Provo BYU 94 (90/2010), and Utah Test Range 91 (88/2004). Record high minimums were set at Alta 50 (50/1998), Provo BYU 58 (58/2004), Salt Lake Int'l Airport 68 (64/1930), Utah Test Range 67 (59/1997), and Wendover 70 (64/1998).

**Sep 26th** - Record high maximum temperatures were set at Laketown 80 (80/1939), Provo BYU 90 (90/2010) and Tooele 87 (86/1922). Record high minimums were set at Alta 53 (51/2001), Brigham City 58 (58/1949), Laketown 57 (52/1997) Milford 57 (52/2997), Provo BYU 58 (58/1989), Salt Lake Int'l Airport 65 (64/1989) and Utah Test Range 61 (61/1930).



# **Record Precipitation For the Month of September:**



**Sep 9th** - Record 24-hour daily rainfall records were set at Provo BYU 1.08 (0.25/1918) and Spanish Fork 1.05 (0.67/2005).

#### THE SALT LAKE CITY UT CLIMATE SUMMARY FOR THE MONTH OF SEPTEMBER 2014

# CLIMATE NORMAL PERIOD 1981 TO 2010 CLIMATE RECORD PERIOD 1874 TO 2013



WEATHER	OBSERVE	D	NORMAL	DEPART	LAST YE	AR`S
	VALUE	DATE(S)	VALUE	FROM NORMAL	VALUE	DATE(S)
TEMPERATURE	(F)					
RECORD						
HIGH	100					
LOW	27	09/17/19	65			
HIGHEST	94	09/17			98	09/06
LOWEST	45	09/12			42	09/28
AVG. MAXIMUM	81.7		79.2	2.5	80.8	
AVG. MINIMUM			53.0	5.2	59.9	
MEAN	69.9		66.1	3.8	70.4	
DAYS MAX >=	90 5		3.3	1.7	7	
DAYS MAX <= 1			0.0	0.0	0	
DAYS MIN <= 3			0.0	0.0	0	
DAYS MIN <= 0			0.0	0.0	0	
PRECIPITATION	I (INCHEC	<b>,</b>				
TOTALS	2.51	)	1.21	1.30	1.17	
TOTALS	2.31		1.21	1.50	1.17	
DAYS >= .01	10		5.8	4.2	9	
DAYS >= .10	8		2.8	5.2	6	
DAYS >= .50	1		0.7	0.3	0	
DAYS >= 1.00	1		0.2	0.8	0	
SNOWFALL (INC	CHES)					
TOTALS	0.0		0.0	0.0	0.0	
SINCE 7/1	0.0		0.0	0.0	0.0	

WEATHER	OBSERVED	NORMAL	DEPART	LAST YEAR`S
	VALUE	VALUE	FROM	VALUE
			NORMAL	
DEGREE DAYS				
HEATING TOTAL	32	84	-52	55
SINCE 7/1	33	89	-56	55
COOLING TOTAL	189	117	72	222
SINCE 1/1	1242	1153	89	1768

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## WIND (MPH)

AVERAGE WIND SPEED	8.5		
HIGHEST WIND SPEED/DIRECTION	33/200	DATE	09/26
HIGHEST GUST SPEED/DIRECTION	46/190	DATE	09/26

### WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	9	RAIN	10
HAIL	0	SNOW	0
FOG	9	FOG W/VIS <= 1/4 MILE	0
HAZE	10		

- INDICATES NEGATIVE NUMBERS.
- R INDICATES RECORD WAS SET OR TIED.

MM INDICATES DATA IS MISSING.

T INDICATES TRACE AMOUNT.



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